



Contract Number	Class Mix	PG Binder	Sample Number
Contract Title			

## Required Data

% Asphalt (Pb) (Corrected Asphalt Content Ignition Furnace Worksheet [DOT Form 350-560])	_____
% Pass #200 Sieve (Percent passing #200 from Ignition Furnace Worksheet [DOT Form 350-560])	_____
<b>Gmm</b> (Rice Specific Gravity) (From Rice Density Worksheet [DOT Form 350-157])	_____
Compaction Temperature (From Mix Design Report)	_____
Initial Weight of Uncompacted Mixture	_____
Number of Gyration @ $N_{initial}$ (From Contract Special Provisions)	_____
Number of Gyration @ $N_{design}$ (From Contract Special Provisions)	_____
<b>Gb</b> (From Mix Design Report)	_____
<b>Gsb</b> Aggragate, Blend (From Mix Design Report)	_____

## Bulk Density (AASHTO T-166 Method A)

A = mass in grams of the specimen in air	_____
B = mass in grams of the surface-dry (SSD) specimen in air	_____
C = mass in grams of specimen in water	_____
<b>Gmb</b> = $A / (B - C)$ = Bulk Specific Gravity of the extruded specimen	(nearest 0.001) _____

## Gyratory Data (AASHTO T-312)

H @ $N_{ini}$	_____
H @ $N_{des}$	_____
% Gmm @ $N_{des}$ = $(Gmb / Gmm) (100)$	(nearest 0.1) _____
% Gmm @ $N_{ini}$ = $(H_{des} / H_{ini}) (\% Gmm @ N_{des})$	(nearest 0.1) _____

## Volumetrics

<b>Va</b> = $100 - \% Gmm @ N_{des}$	(nearest 0.1) _____
<b>VMA</b> = $100 - (((\% Gmm @ N_{des}) (Gmm) (100 - \% AC / 100)) / Gsb)$	(nearest 0.1) _____
<b>VFA</b> = $(100) [(VMA - Va) / VMA]$	(nearest 0.1) _____

## Dust to Asphalt Binder Ratio (D/A)

<b>Gse</b> Gravity Stone Effective = $(100 - \% AC) / [(100 / Gmm) - (\% AC / Gb)]$	(nearest 0.001) _____
<b>Pbe</b> Percent Binder Effective = $\% AC - [(100 - \% AC) (Gb)] [(Gse - Gsb) / ((Gse) (Gsb))]$	(nearest 0.1) _____
<b>D/A</b> Dust-to-asphalt binder ratio = $\% \text{ Passing \# 200 Sieve} / Pbe$	(nearest 0.1) _____

Contractor's Signature	Date
Inspector's Signature	Date